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| Title | Load and unload, and arm and disarm aircraft bombs | | |
| Level | 4 | Credits | 4 |

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| Purpose | People credited with this unit standard are able to: prepare to load and unload, and arm and disarm aircraft bombs; load and unload aircraft bombs; arm and disarm aircraft bombs; and complete tasks related to the loading and unloading and arming and disarming of aircraft bombs. |
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| Classification | Aeronautical Engineering > Aeronautical Armament |
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| Available grade | Achieved |
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Guidance Information

- 1 All tasks must be carried out in accordance with enterprise procedures.
- 2 Definition
Enterprise procedures – procedures used by the organisation carrying out the work and applicable to the tasks being carried out. Examples are – standard operating procedures, safety procedures, equipment operating procedures, codes of practice, quality management practices and standards, procedures to comply with legislative and local body requirements.

Outcomes and performance criteria

Outcome 1

Prepare to load and unload, and arm and disarm aircraft bombs.

Performance criteria

- 1.1 Task is determined by reviewing maintenance documentation and manuals.
- 1.2 Resources are obtained and checked for serviceability or status.

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| Range | may include but is not limited to – publications, tools, equipment, safety equipment, signs and/or flags, weapons preparation area and/or building authorised and licensed, hazard division and fire-fighting symbols displayed, ground support equipment and/or transportation arranged. |
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- 1.3 Bombs are stored before loading to and after unloading from aircraft.

1.4 Aircraft is prepared for loading and unloading and arming and disarming.

Range aircraft positioned in authorised loading and unloading area, and arming and disarming area; distance between aircraft checked; safe headings checked; chocks fitted; bonding attached; warning devices fitted and removed; Hazards of Electromagnetic Radiation to Ordnance (HERO) precautions implemented; signs and/or flags positioned; role equipment fitted and removed.

1.5 Armament system is tested using test equipment.

1.6 Role equipment is set up.

Range switch settings, sway braces, retaining bulkheads, breech caps, electrical connectors.

Outcome 2

Load and unload aircraft bombs.

Performance criteria

2.1 Weapon system is inspected.

Range bombs, racks, suspension lugs, arming wires, electrical connectors, tail assemblies, guidance units, fuse settings.

2.2 Bombs are loaded and unloaded.

Range practice (manually), high-explosive (mechanically), secured to and released from transporter.

2.3 Bombs and role equipment are secured to and removed from aircraft.

Range may include but is not limited to – alignment checked, sway bracing adjusted, hook sear indicators checked, electrical connectors connected and disconnected, arming wires and switches positioned.

2.4 Weapon data is entered onto inventory and/or loading panels.

2.5 Supervisory inspections are obtained.

Outcome 3

Arm and disarm aircraft bombs.

Performance criteria

3.1 Weapon system is armed and disarmed.

Range clearance obtained from pilot, safety devices fitted and removed.

3.2 Causes of hung bombs are determined and reported.

3.3 System status is indicated to pilot.

3.4 Supervisory inspections are obtained.

Outcome 4

Complete tasks related to the loading and unloading and arming and disarming of aircraft bombs.

Performance criteria

4.1 Defects are reported and documented.

Range armament system, weapons, support equipment, role equipment.

4.2 Resources are checked for serviceability and returned to service or storage.

Range may include but is not limited to – tools, equipment, publications, safety equipment, signs and/or flags, ground support equipment and/or transportation.

4.3 Leftover parts and materials are disposed of.

Range may include but is not limited to – serviceable, unserviceable, surplus, waste, scrap, hazardous.

4.4 Aircraft, system, and work area are left in a state that enables the next task to begin.

Range isolation tags attached or removed, external and internal warnings positioned and stowed, system switches and selectors set, power connected or disconnected, access panels closed, cleaned, tidied.

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| Planned review date | 31 December 2027 |
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Status information and last date for assessment for superseded versions

| Process | Version | Date | Last Date for Assessment |
|-----------------------|---------|-----------------|--------------------------|
| Registration | 1 | 19 October 2000 | 31 December 2016 |
| Review | 2 | 26 March 2007 | 31 December 2016 |
| Review | 3 | 24 October 2014 | 31 December 2022 |
| Review | 4 | 27 August 2020 | N/A |
| Rollover and Revision | 5 | 27 June 2024 | N/A |

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| Consent and Moderation Requirements (CMR) reference | 0028 |
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact Ringa Hora Services Workforce Development Council
qualifications@ringahora.nz if you wish to suggest changes to the content of this unit standard.